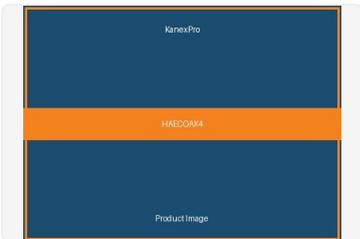# 4K HDMI Audio Embedder

Insert Optical or Analog Audio into Any HDMI 2.0 Signal

HAECOAX4

The KanexPro HAECOAX4 is a professional 4K HDMI audio embedder designed for integrators who need to insert external audio from digital optical or analog stereo sources directly into an HDMI signal chain. Supporting 18Gbps HDMI 2.0b bandwidth with 4K@60Hz 4:4:4 and 10-bit HDR pass-through, it accepts audio from a Toslin...
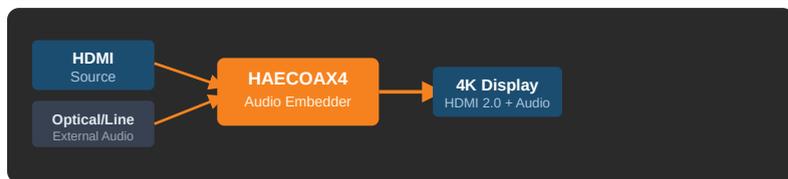
18Gbps HDMI 2.0b bandwidth	**4K@60Hz** 4:4:4 full color	**10-bit HDR** Pass-through	**3-Source** Dial switch select	**192kHz** Audio sampling rate	**Compact** 73×60×17mm metal

KEY FEATURES

- ▶ Embeds multi-channel optical (S/PDIF) or analog stereo Line audio into HDMI output
- ▶ HDMI 2.0b (18Gbps), HDCP 2.2 and DVI 1.0 compliant
- ▶ Video resolutions up to 4K@50/60Hz (YUV 4:4:4), 4K@30Hz, 1080P@120Hz
- ▶ 10-bit HDR (High Dynamic Range) pass-through
- ▶ HDMI High Bit Rate (HBR) audio pass-through from HDMI source
- ▶ Optical audio: LPCM 2CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH
- ▶ Analog audio: PCM 2.0CH stereo input via 3.5mm mini-jack
- ▶ Supports CEC bypass for transparent device control
- ▶ Front-panel dial switch: HDMI / Optical / Line audio source selection
- ▶ Audio sampling rates up to 192kHz for highest fidelity
- ▶ Compact metal enclosure: 73.5×60.7×17mm, 122g — ideal for rack-adjacent mounting

SIGNAL FLOW

APPLICATIONS

- • Conference Room Integration
- • Classroom AV Systems
- • Legacy Audio Source Integration
- • Live Event A/V

SPECIFICATIONS

Video	
HDMI	HDMI 2.0b, HDCP 2.2/1.4
Bandwidth	18Gbps
Resolution	4K@60Hz 4:4:4; 1080P@120Hz
HDR	10-bit HDR pass-through
Audio	
HDMI Audio	LPCM 7.1, Dolby Atmos, DTS:X, TrueHD, DTS-HD MA
Optical Input	LPCM 2CH, Dolby/DTS 5.1CH
Line Input	Analog Stereo 2CH
Sample Rate	Up to 192kHz
Connections	
Inputs	1× HDMI Type A 1× Optical (S/PDIF) 1× Line In (3.5mm)
Output	1× HDMI Type A
Mechanical	
Dimensions	73.5 × 60.7 × 17mm
Weight	122g
Power	DC 5V/1A (CE/FCC/UL)
Consumption	1.25W
CEC	Bypass supported
Warranty	3 Years Limited